

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-16 (Canceled).

Claim 17 (Currently Amended): A transfer device managed by a first communications carrier, and that performs packet communication with other communication devices, the transfer device comprising:

a communication unit configured to receive packets addressed to a mobile terminal connected to an access router included in an access network managed by a second communications carrier, the mobile terminal located in the access network;

a terminal information storage unit configured to receive, from the mobile terminal, and store ~~terminal information~~ a binding update packet of the mobile terminal including ~~identification information~~ a home address of a unique IP address of the mobile terminal which has a possibility to be a destination of packet transfer from the transfer device and includes at least either (1) a Link Care of Address (LCoA) or (2) the Link Care of Address (LCoA) and a Regional Care of Address (RCoA), the Link Care of Address including a network prefix of the access router, which is used to transfer the packets from the transfer device to the mobile terminal, and a host identity of the IP address assigned to the mobile terminal, the Regional Care of Address including a network prefix of another transfer device managed by the first communications carrier and that is located in the access network or on a boundary of the access network and a host identity of the IP address assigned to the mobile terminal;

a binding information storage unit to (1) record binding information between the home address and LCoA of the mobile terminal, when the binding update packet includes the home address and LCoA of the mobile terminal, and (2) record binding information between

the LCoA and RCoA of the mobile terminal, when the binding packet includes the LCoA and RCoA of the mobile terminal;

a determination unit configured to determine whether the identification information of the mobile terminal included in the packets received by the communication unit corresponds to the terminal information stored in the terminal information storage unit; and

a transfer unit configured to transfer the packets received by the communication unit to the mobile terminal connected to the access router when the determination unit determines that the identification information of the mobile terminal included in the packets received by the communication unit corresponds to the terminal information stored in the terminal information storage unit.

Claim 18 (Currently Amended): A transfer method managed by a first communications carrier, and that performs packet communication with other communication devices, the transfer method comprising:

receiving, at a communication unit, packets addressed to a mobile terminal connected to an access router included in an access network managed by a second communications carrier, the mobile terminal located in the access network;

receiving, from the mobile terminal, and storing in a storage unit ~~terminal information~~ a binding update packet of the mobile terminal including identification information a home address of a unique IP address of the mobile terminal which has a possibility to be a destination of packet transfer from the transfer device and includes at least either a Link Care of Address (LCoA) or a Regional Care of Address (RCoA), the Link Care of Address including a network prefix of the access router, which is used to transfer the packets from the transfer device to the mobile terminal, and a host identity of the IP address assigned to the mobile terminal, the Regional Care of Address including a network prefix of another transfer

device managed by the first communications carrier and that is located in the access network or on a boundary of the access network and a host identity of the IP address assigned to the mobile terminal;

a binding information storage unit to (1) record binding information between the home address and LCoA of the mobile terminal, when the binding update packet includes the home address and LCoA of the mobile terminal, and (2) record binding information between the LCoA and RCoA of the mobile terminal, when the binding packet includes the LCoA and RCoA of the mobile terminal;

determining whether the identification information of the mobile terminal included in the packets received by the communication unit corresponds to the terminal information stored in the terminal information storage unit; and

transferring the packets received by the communication unit to the mobile terminal connected to the access router when it is determined that the identification information of the mobile terminal included in the packets received by the communication unit corresponds to the terminal information stored in the storage unit.